ABSTRACT OF THE DISCLOSURE

A commutator includes six segments disposed in the direction of rotation, and is attached to one axial end of an armature. By the commutator rotating together with the armature, each of the segments successively contacts a brush. Each of the segments is electrically connected with terminals through mid-terminals. Three of the six terminals, non-adjacent and alternatingly located in the direction of rotation, are electrically connected directly with mid-terminals facing in radial opposition. Capacitors are electrically connected directly with the terminals adjacent in the direction of rotation. Discharge does not occur between the brush and segments when the brush separates from the segments accompanying rotation of the armature, since electromagnetic energy built up in the coils of the armature is temporarily built up in the capacitors.